

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 61072087
PUBLICATION DATE : 14-04-86

APPLICATION DATE : 14-09-84
APPLICATION NUMBER : 59195146

APPLICANT : KONISHIROKU PHOTO IND CO LTD;

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INT.CL. : C09K 11/61 C09K 11/85 G03B 42/02
G21K 4/00

TITLE : RADIATION IMAGE CONVERSION
METHOD AND RADIATION IMAGE
CONVERSION PANEL USING
THEREFOR

ABSTRACT : PURPOSE: To carry out the radiation image conversion in high sensitivity, using a fluorescent material having high luminance and exhibiting accelerated phosphorescence, by exposing a specific fluorescent material exhibiting accelerated phosphorescence to radiation, exciting the fluorescent material with electromagnetic wave, and detecting the emitted fluorescent light.

CONSTITUTION: Radiation transmitted through the object to be photographed or emitted from the object is absorbed in a fluorescent material of formula [MI is Li, Na, K, Rb or Cs (Rb and/or Cs are essential); MII is Be, Mg, Cs, Sr, Ba, etc.; MIII is Sc, Y, La, Ce, Pr, etc.; X, X' and X' are F, Cl, Br or I; A is Eu, Tb, Ce, Tm, Dy, etc.; $0 \leq a \leq 0.5$; $0 \leq b < 0.5$; $0 < c \leq 0.2$] exhibiting accelerated phosphorescence. The fluorescent material is excited with electromagnetic wave consisting of visible light and/or infrared radiation to effect the emission of the radiation energy stored in the fluorescent material. The emitted fluorescent light is detected to effect the radiation image conversion.

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